



Norwegian Centre for Sustainable Bio-based Fuels and Energy

Bio4Fuels: Webinar on H2020 Bioenergy & Biofuels Proposals Tuesday 26 November 10 - 11.30 Duncan Akporiaye, Centre Leader, SINTEF















Nordic Bio-resources



Technologies

- Biochemical
- Thermochemical
- Chemical

Stakeholders

- Resource owners
- R&D institutes
- Industry
- Authorities
- NGOs

Bio-resource, Environment, Climate

> Primary Biomass Conversion

Secondary Conversion and upgrading

Process design and End Use SUSTAINABILITY

Enabling sustainable biofuels production in Norway

Markets

Aviation fuel • Heavy Diesel • Biogas • Valorised Side Streams









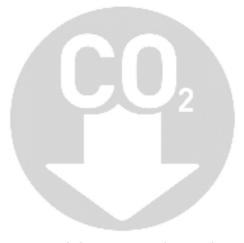






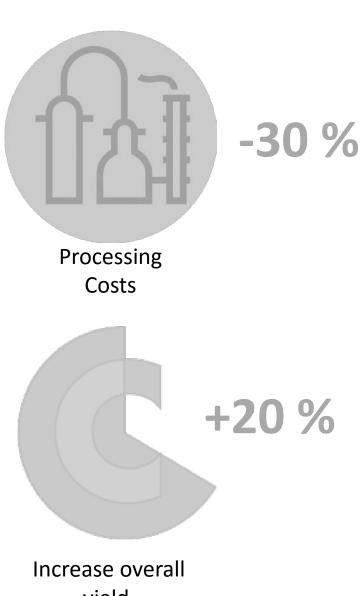
Bio4Fuels Ambitions - Internationalisation



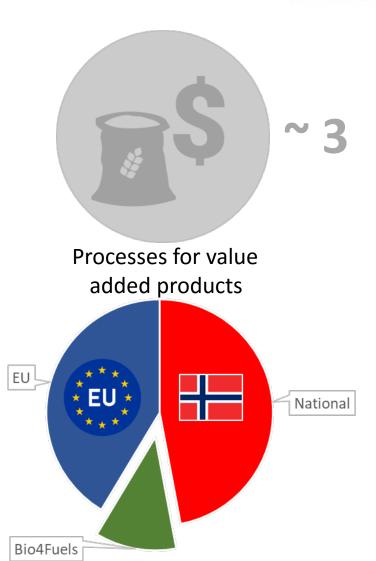


Enabling a reduced global CO2 footprint





yield



Strengthen National and **International Cooperation**

Projects with European Stakeholders



Bio-resources











Norwegian Technology





















International

























End Users











Government and State













EU Projects – Access to European Network FUELS





Scenarios for integration of bio-liquids in existing REFINERY processes



Cost-effective transformation of a Highlycoal-fired powder plant into a CHP by retrofitting and integrating an ARBAFLAME biomass upgrading process



Efficient Advanced Thermal Ultra-SuperCritical



Conceptual Study of Electrochemical based novel process using Lignosulfonates to produce bio-based monomers & polymers



Pulp and Paper Industry Wastes to Fuel



Biofuels from WASTE TO ROAD transport





Sustainable Drop-In Transport Fuels from Hydrothermal Liquefaction of Low Value Urban Feedstocks



Bio energy research infrastructure for knowledge sharing



Lignin Biorefinery Approach using **Electrochemical Flow**



Advanced biofuel production through integration of energy systems

Waste2Road: Realise Full Value Chain



Waste Sorting

Primary Conversion

Refinery Integration

Process Design



Food waste



Contaminated Wood



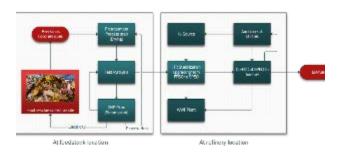
Fast Pyrolysis



Hydrothermal Liquefaction



Refinery



Process Design

Contact Us!!





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